

Amendment and Response

Applicant: Von L. Hansen

Serial No.: 09/995,777

Filed: November 29, 2001

Docket No.: 10004290-1 (H302.150.101)

Title: SECURE PRINTING SYSTEM AND METHOD

IN THE CLAIMS

Please cancel claims 2-3, 7, 9, 12-13, 15, 22, and 31-32.

Please amend claims 1, 4-6, 8, 10-11, 14, 16-19, 21, 23-26, 27, 29-30, and 33 as follows:

1. (Currently Amended) A method of printing comprising:
posting a document on a server from a computer workstation as a print job for an identified printer and transmitting from the computer workstation a first security key separate from the document and that uniquely identifies the document, the first security key configured to enable activation of an identified printer via a mobile computing device to execute the print job for printing the document;
preventing printing of the print job at the identified printer until:
a later time when placing a the mobile computing device is located within a wireless transmission range of the a select proximity of a identified printer to confirm the presence of the mobile computing device adjacent the identified printer; and
sending from the later time when the mobile computing device wirelessly transmits to the identified printer a security key and printing instructions and the first security key to enable activation of the identified printer to execute the print job access and to print at the document.
- 2-3 (Canceled).
4. (Currently Amended) The method of claim 3, wherein ~~the accessing step further posting a document~~ comprises:
providing the network printing manager printer as commercial printer wherein the server defines a portion of a commercial printing web site.

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5. (Currently Amended) The method of claim 3, wherein posting a document ~~further comprises~~

~~identifying~~ specifying a location of the identified printer, apart from a plurality of other printers, associated with the network printing manager for printing at which the document will be printed.

6. (Currently Amended) The method of claim 1, wherein wirelessly transmitting a security key in preventing printing of the print job ~~the sending step further comprises:~~

~~transmitting the security key by wireless communication including~~ at least one of the following wireless communication protocols: infrared; Bluetooth; and WAP.

7. (Canceled)

8. (Currently Amended) The method of claim 1 ~~7~~, wherein preventing printing of the print job ~~the transmitting step further comprises:~~

~~using a Java applet to~~ for wirelessly transmitting ~~transmit~~ the printing instructions to print the print job and the security key; and

receiving and operating the Java applet, to execute the print job, with a Java virtual machine of the identified printer.

9. (Canceled)

10. (Currently Amended) A method of printing comprising:

carrying a document on a mobile computing device as a print job for a remote printer;
wirelessly transmitting the print job, including printing instructions, to the printer from the mobile computing device, the print job configured to be enabled for printing via an electronic security key; and

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printing the print job on the remote printer ~~only~~ when the user wirelessly activates transmits to the remote printer with a the electronic security key from thea mobile computing device, after wireless transmission of the print job, to cause transmission of the print job to the printer and to enable cause printing of the print job on the remote printer.

11. (Currently Amended) A method of printing comprising:

directing printing of a print job via electronically authorizing, without a physical security key, posting the a print job on a server for printing at a first printer;

selectively delaying the printing of the print job until the first printer receives printing instructions and an electronic security key from via an authorized wireless transmission from a mobile computing device to the printer; authorize printing of the print job by the first printer according to wherein the printing instructions command the printer to access and perform the print job; and

enabling printing of the print job with the authorized wireless transmission based on at least one of a distance from a source of the wireless transmission from the mobile computing device to the first printer, a time delay factor associated with the first printer, and a type of wireless transmission.

12 -13. (Canceled)

14. (Currently Amended) The A method of claim 11 network printing wherein posting a document comprises comprising:

storing a document within a computing network for printing at at least one of a plurality of printers within the computing network;

identifying via the a mobile computing device the first printer as with at least one printer uniquely from among a plurality of printers within athe computing network; and

wherein selectively delaying printing of the print job comprises delaying printing until a presence of sending from the mobile computing device is automatically detected via the first

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~~printer when the mobile computing device enters a wireless communication range with the first printer to the at least one printer a security key and printing instructions to activate the at least one printer to retrieve and print the document.~~

15. (Canceled)

16. (Currently Amended) The A method of claim 1 wherein posting a document comprises service printing comprising:

providing the document as a posting a passenger ticket service document, associated with a pre-identified consumer travel service, on the server at a consumer travel service facility;

wherein the sending from a mobile computing device to a printer of the service facility a security key and printing instructions to request the pre-identified consumer travel service and printing of the passenger ticket service document; and

delivering the pre-identified travel service to the consumer via by printing the passenger ticket service document on the printer at the consumer travel service facility.

17. (Currently Amended) The method of claim 16 wherein providing the document comprises, further comprising:

creating producing the passenger travel service document as an airline passenger ticket as the service document to provide the service of passenger airline travel for the consumer.

18. (Currently Amended) The method of claim 17 wherein producing the passenger travel service document comprises, further comprising:

expanding providing the passenger travel service document to include printed news and entertainment information that is personal to the consumer.

19. (Currently Amended) The A method of claim 11 and further public printing comprising:

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selectively contracting with a public printing service to print thea document as the print job with the printer beingat a publicly accessible printer in a public venue;

~~posting the document to a server;~~

~~placing a mobile computing device within a select proximity of the public printer; and~~

~~sending from the mobile computing device to the public printer a security key and printing instructions to activate the public printer to retrieve the document from the server and print the document.~~

20. (Original) The method of claim 19, further comprising:

specifying the server to include at least one of a private server and a server of the public printing service.

21. (Currently Amended) The printer of claim 25 comprising aA printing system comprising:

~~a server for holding a document for printing;~~

~~a printer connectable to the server;~~

a mobile computing device for holding a the security key and printing instructions and having a wireless communication module for activating the printer to print the document as the print job when the mobile computing device is within a select proximity of the printer.

22. (Canceled)

23. (Currently Amended) The printing system of claim 24 wherein the server comprises aA network printing manager menu comprising:

a document identification field;

a document upload function;

a printer location function configured to identify a location of the printer; and

a security key field for identifying and activating thea security key to selectively control

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printing of the document.

24. (Currently Amended) The printer of claim 25 and further comprising a A-printing system comprising:

a server for holding the document as the a print job for printing at the printer;
~~a printer configured and arranged to receive a wireless transmission specifying a security key and printing instructions to activate the printer to access the print job from the server and print the print job.~~

25. (Currently Amended) A printer comprising:

a printing mechanism for printing a document as a print job and configured to store the print job for later execution by the printing mechanism;

a device independent program language reader;

a wireless communication module configured to receive a wireless transmission securely requesting printing a document on the printer wherein the wireless transmission includes a security key and printing instructions with both of the security key and the printing instructions provided given in the wireless transmission in device independent programming language to be implemented by the device independent program language reader, wherein the security key is separate from the document and the wireless communication module is configured to receive the wireless transmission of the security key at a point in time after the print job is stored via the printing mechanism.

26. (Currently Amended) The printer of claim 25, wherein the device independent program language reader ~~further~~ comprises a Java virtual machine and the device independent programming language ~~further~~ comprises Java programming language, and wherein the Java virtual machine comprises the printing instructions and the security key.

27. (Currently Amended) A mobile computing device comprising:
a controller; and

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a wireless communication module configured for activating a printer to print a document, available to the printer, as a print job by via a wireless transmission that sends sending printing instructions and a security key to the printer, the security key being separate from the document and configured to enable the printer to print the print job, the wireless communication module including an automatic identification module to identify to the printer, based on a presence of the mobile computing device within a wireless communication range with the printer, that an individual associated with the mobile computing device is adjacent the printer to retrieve the printed document from the printer.

28. (Currently Amended) The mobile computing device of claim 27 wherein the communication module further comprises:

an authorization module configured for recognizing the printer and configured for permitting printing of the document based on at least one of a distance of the mobile computing device relative to the printer, a time factor associated with the printer, and a type of wireless transmission associated with the printer.

~~29.~~29. (Currently Amended) A computer-readable medium having computer-executable instructions for performing a method of printing, the method comprising:

posting a document on a server from a computer workstation as a print job for an identified printer and transmitting from the computer workstation a first security key separate from the document and that uniquely identifies the document, the first security key configured to enable activation of an identified printer via a mobile computing device to execute the print job for printing the document;

preventing printing of the print job at the identified printer until a later time when the mobile computing device is located within a wireless transmission range of the identified printer to confirm a presence of the mobile computing device adjacent the identified printer, and until the later time when the mobile computing device wirelessly transmits to the identified printer printing instructions and the first security key to enable activation of the identified printer to execute the print job to print the document.

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~~identifying a document for printing at a printer; and
sending from an authorized mobile computing device to the printer a security key and
printing instructions to enable the printer to access and print a document.~~

30. (Currently Amended) The medium method of claim 29 and further comprising:
determining whether the mobile computing device is authorized to enable execution of
the print job at the identified printer based on at least one of a select proximity between a source
of the wireless transmission and the identified printer, a time factor associated with the identified
printer, and a type of the wireless transmission between the mobile computing device and the
identified printer.

31-32. (Canceled)

33. (Currently Amended) The medium method of claim 29, wherein preventing printing of
the print job ~~the sending step~~ further comprises:
using a Java applet to send the printing instructions and the second security key from the
mobile computing device to the identified printer.